



# EMS2 – Electronic Motor Starter

Easy, Multi-functional, Safe – Five functions in a single device

The EMS2 electronic motor starter combines a DOL starter, a reversing starter, wide-range overload protection and an emergency-stop function (SIL3) in one device. Due to its width of 22.5 mm, the electronic motor starter is used for switching of motors up to 3 kW rated power.



#### Intelligent Networking

The SmartWire-DT interface replaces the conventional control wiring and also supplies additional information



#### Motor starter with a long life span

The integrated hybrid switching technology not only ensures minimal wear during start-up, but also increases the contact life by a factor of 10, to approximately 30 million operations.



#### Electronic motor protection

Despite having only two current ranges, the electronic motor starter can be used to protect motors from 0.06 kW to 3 kW (400 V 50 Hz).



#### Integrated reversing starter

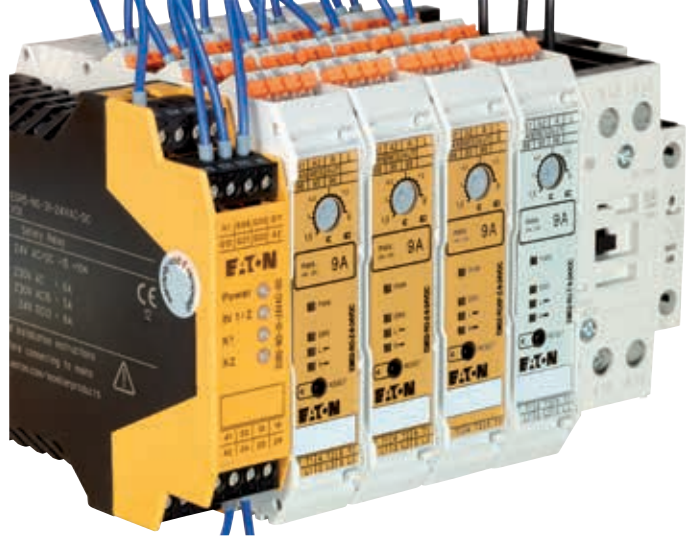
The electronic motor starter enables both clockwise and counter-clockwise rotation.



#### Safe stop

Thanks to its dual-channel design, the electronic motor starter ensures safe stops up to SIL3 / PLe.

# EMS2 – Electronic Motor Starter



## Overview

### Multi-functional Motor Starter EMS2

- DOL and reversing starter
- Wide-range overload protection
- Emergency-stop function (SIL3)
- 22,5 mm wide
- Additional monitoring functions via SmartWire-DT
- Hybrid switching technology
- ATEX approval
- Short-circuit protection

### Motor performance (AC-3 / 400 V):

- 0,06...3 kW

### Applications:

- Slide controls
- Horizontal / vertical conveyors
- Small drives
- Fans

### Space-saving up to 80%

By combining the functions DOL starter, reversing starter, motor protection and emergency-stop (SIL3) in a width of only 22.5 mm, the electronic motor starter can save more than 80 percent of the overall width compared to solutions with several individual devices

### Flexible and various connection technologies

In addition to devices with push-in connection technology and for SmartWire-DT, the EMS2 family also includes variants with screw connection technology and for the use with the Eaton MSFS feed-in system

### EMS2 with SmartWire-DT

The SmartWire—DT system replaces the previous control wiring of switchgear with a pluggable communication connection.

### EMS2 with Motor starter Feeder System

The feeder system reduces assembly work and forms the basis for safe power distribution up to 125 A, all components such as the EMS2 are plugged into the board without tools – the electrical and mechanical connection is made in a single operation

### Hybrid technology

Microprocessor-controlled combination of wear-free semiconductor technology and robust relay technology. This gentle switching process increases the service life of the motor starter by a factor of 10 to approximately 30 million switching cycles.

For more information visit [www.eaton.eu/EMS2](http://www.eaton.eu/EMS2)

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